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ATTACHMENT 1

Estimated Production of the New Bomber and the Camel B

at Kagan' Airframe Plant No. 23

	NEW BOMBER		CAMEL B	
	Monthly Production	Cumulative Production*	Monthly Production	Cumulative Production*
January 1959	0	3	5	17
February	0	3	6	23
March	0	3	6	29
April	1	4	6	35
May	0	4	5	40
June	1	5	5	45
July	0	5	3	48
August	1	6	2	50
September	1	7	2	52
October	1	8	2	54
November	1	9	2	56
December	1	10	1	57
January 1960	1	11	2	59
February	1	12	2	61
March	1	13	3	64
April	1	14	3	67
May	1	15	3	70
June	1	16	3	73
July	2	18	3	76
August	2	20	3	79
September	2	22	4	83
October	2	22	4	87
November	2	26	4	91
December	2	28	4	95

* Includes Prototypes

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ATTACHMENT 2

Estimated Production of the New Bomber at Kazan' Airframe

Plant No. 22 [redacted] 25X1C

	Cumulative Percentage Expenditure of Man-hours a/	Cumulative Production b/	Monthly Production
January 1959			
February			
March	111.111	1	1
April	222.222	2	1
May	333.333	4	2
June	444.444	6	2
July	555.555	8	2
August	666.666	10	2
September	777.777	13	3
October	888.888	15	2
November	999.999	18	3
December	1,111.110	21	3
January 1960	1,222,221	24	3
February	1,333.332	27	3
March	1,444.443	31	4
April	1,555.554	34	3
May	1,666.665	38	4
June	1,777.776	41	3
July	1,888.887	45	4
August	1,999.998	49	4
September	2,111.109	53	4
October	2,222.220	57	4
November	2,333.331	61	4
December	2,444.442	65	4

a/. The monthly percentage expenditure of airframe hours for the initial unit equals

$$\frac{1{,}000{,}000 \text{ man-hours per month}}{900{,}000 \text{ man-hours for initial unit}} \times 100 = 111.111 \text{ percent}$$

b/. Excluding prototypes and based on an 80-percent learning curve.

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ATTACHMENT 3
(Continued)

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Estimate of the Number of New Bomber Aircraft Aircraft That Could Have Been Produced at Kazan' Airframe Plant No. 22
(Continued)

A	B a/	C b/	D	E c/	F d/	G e/	H f/	I	J	K
Month	Cumulative Production of Cassi B (Units)	Cumulative Percentage Expenditure of Man-hours on Cassi B	Monthly Percentage Expenditure of Man-hours on Cassi B	Monthly Expenditure of Man-hours on Cassi B (1,000 hours)	Monthly Man-hours Remaining for Production of New Bomber (1,000 hours)	Cumulative Percentage Expenditure of Man-hours on New Bomber	Cumulative Production of New Bomber (Units)	Monthly Production of New Bomber (Units)	Smoothed Monthly Production of New Bomber (Units)	Smoothed Cumulative Production of New Bomber (Units)
1960										
Jan	59	2,147.9316	50.1269	245	755	769.1103	13	2	2	10
Feb	62	2,222.0613	74.1297	362	638	839.9992	14	1	2	12
Mar	65	2,294.9902	72.9289	357	643	911.4435	16	2	2	14
Apr	69	2,390.4864	95.4962	467	533	970.6657	17	1	2	16
May	73	2,484.1304	93.6440	458	542	1,030.8879	19	2	2	18
Jun	78	2,598.7835	114.6531	561	439	1,079.6656	20	1	2	20
Jul	81	2,666.3820	67.5985	331	669	1,153.9988	22	2	2	22
Aug	84	2,733.1394	66.7574	326	674	1,228.8877	24	2	2	24
Sep	87	2,799.8954	65.9560	323	677	1,304.1098	27	3	2	26

25X1X7

a/. [redacted]
b/. Using a 79-percent learning curve.
c/. The monthly expenditure of man-hours on Cassi B is obtained by multiplying the 489,000 man-hours required for the initial unit by Column D.
d/. The monthly man-hours remaining for production of the new bomber is obtained by subtracting Column E from 1,000,000 direct man-hours available.
e/. The cumulative percentage expenditure of man-hours on the new bomber is obtained by cumulating the monthly percentage which equals Column F divided by the 900,000 man-hours required for the initial unit.
f/. Cumulative production of the new bomber is ascertained by determining the cumulative values of Column G on an 80-percent curve. These figures do not include the three prototypes.

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ATTACHMENT 3

Estimate of the Number of the New Bomber Aircraft That Could Have Been Produced at Kazan' Airframe Plant No. 22

A	B a/*	C b/*	D	E c/*	F d/*	G e/*	H f/*	I	J	K
Month	Cumulative Production of Camel B (Units)	Cumulative Percentage Expenditure of Man-hours on Camel B	Monthly Percentage Expenditure of Man-hours on Camel B	Monthly Expenditure of Man-hours on Camel B (1,000 hours)	Monthly Man-hours Remaining for Production of New Bomber (1,000 hours)	Cumulative Percentage Expenditure of Man-hours on New Bomber	Cumulative Production of New Bomber (Units)	Monthly Production of New Bomber)(Units)	Smoothed Monthly Production of New Bomber (Units)	Smoothed Cumulative Production of New Bomber (Units)
1958										
Dec	17	903.0982								
1959										
Jan	21	1,048.8713	145.7731	713	287	31.8889	0	0		
Feb	25	1,185.6497	136.7784	669	331	68.6666	0	0		
Mar	29	1,315.2906	129.6409	634	366	109.3332	1	1	1	1
Apr	33	1,439.0694	123.7788	605	395	153.2221	1	0	0	1
May	38	1,586.9335	147.8641	723	277	183.9998	2	1	1	2
Jun	43	1,728.3890	141.4555	692	308	218.2220	2	0	0	2
Jul	46	1,810.6013	82.2123	402	598	284.6664	3	1	1	3
Aug	49	1,891.0282	80.4269	393	607	352.1108	4	1	1	4
Sep	51	1,943.7260	52.6978	258	742	434.5551	6	2	1	5
Oct	53	1,995.7322	52.0062	254	755	518.4439	7	1	1	6
Nov	55	2,047.0812	51.3490	251	749	601.6661	9	2	1	7
Dec	57	2,097.8047	50.7235	248	752	685.2215	11	2	1	8

* Footnotes for Attachment 3 follows on page 2, below.

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